



2019-V1.0-0313

Specifications

LED Power Supplies for Outdoor Use

LGSU-100C Series, 100W

PAIRUI ELECTRONICS

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2019

LED Power Supplies for Outdoor Use

LGSU-100C SERIES, 100WATT, IP67 RATING

Features

- 5 Year Warranty
- Universal Input Voltage Range: 90~305Vac
- Constant Current Output Mode
- High PF up to 0.99
- Rating IP67, Suitable for Outdoor Applications
- All Round Protections: Short Circuit, Over Voltage, Over Current, Over Temperature



Applications

- ✓ Street Light
- ✓ Tunnel Light
- ✓ Flood Light
- ✓ Refrigeration Equipment
- ✓ Other Light Fixtures for Outdoor Use

Electrical

Part Number	Output Power	Input Voltage	Output Current	Output Voltage	PF	Efficiency	Certificate
LGSU100-C700	100W	100-277V	700mA	74-143V	0.96	92%	CE UL
LGSU100-C1050	100W	100-277V	1050mA	57-95V	0.96	91%	CE UL
LGSU100-C1400	100W	100-277V	1400mA	42-71V	0.96	91%	CE UL
LGSU100-C2100	100W	100-277V	2100mA	24-48V	0.96	91%	CE UL

NOTE:

1. Other output models are may available on request;
2. Add suffix "D" for 0-10V dimming

INPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Input voltage		90		305	Vac
Input frequency		47		63	Hz
Input current	Full load, Vin=110Vac Full load, Vin=220Vac		1 0.5		A A
Inrush current	Cold start, Vin=230Vac			65	A
Power factor(PF)	Full load, Vin=110Vac Full load, Vin=220Vac		0.99 0.96		
Leakage current	Vin=230Vac, 50Hz		0.75		mA
Surge voltage	L-N L, N-FG		4 6		KV KV

OUTPUT

PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Output current accuracy			±5		%
Line regulation	Vin from 100Vac to 277Vac			1	%
Load regulation	Vout from min. to max.			3	%
Output current overshoot	Turning on			10	%
Turn-on delay time	Cold start, power on		1		S
Ripple	Please refer to below measurement method		See page 2		mAp-p
THD	Output load≥80%			20	%

NOTE: The values are measured at 20MHz of bandwidth by using a 12'' twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor under ambient temperature 25°C at rated input voltage and rated load.

Protection

Short circuit	In hiccup mode, it will recover automatically after fault condition is removed
Over voltage	110-150% Vout, the driver shall return to normal operation after the power is turn-on again
Over current	In hiccup mode, it will recover automatically after fault condition is removed
Over temperature	In hiccup mode, it will recover automatically after fault condition is removed

Environment

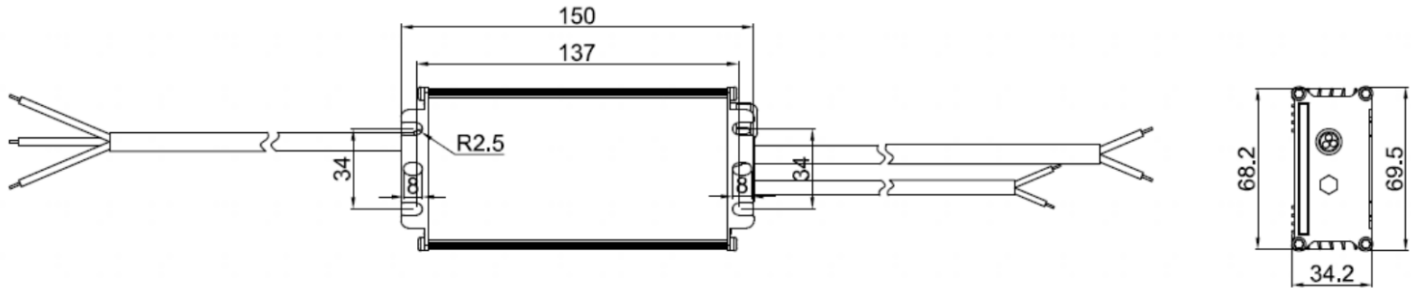
PARAMETER	CONDITIONS	MIN	TYP	MAX	UNITS
Ambient operating temperature	Startup at rated voltage	-40		+70	°C
Operating relative humidity	Non condensing	10		95	%
Storage temperature	Humidity 5 ~ 100% RH	-40		+85	°C
Maximum case temperature	Hot-spot on case			+90	°C
Lifetime	Full load, 220Vac input, 25°C ambient temperature	50			Khrs
Waterproof rating	IP67				
Dimension(LxWxH)	165 x 68.2 x 34.2mm				
Weight	650g				

Safety/EMC

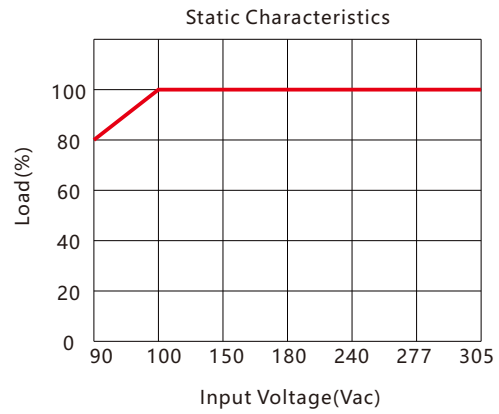
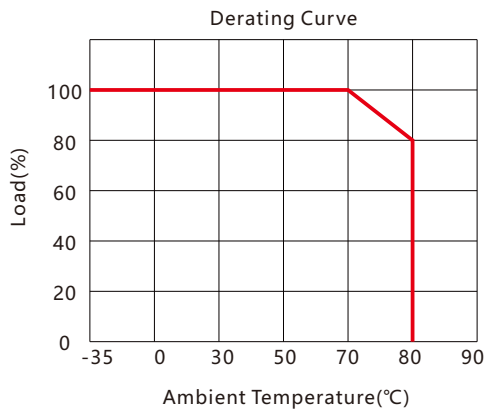
Safety	Compliance to UL8750, UL935, UL1012, UL1310 Class 2, EN61347-1, EN61347-2-13
EMC	Compliance to EN55015, FCC Part 15 Class B, EN61000-3-2, EN61000-3-3, EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547

NOTE: Unless otherwise specified, all the above parameters are measured at ambient temperature of 25°C and Vin=100Vac to 277Vac.

Mechanical

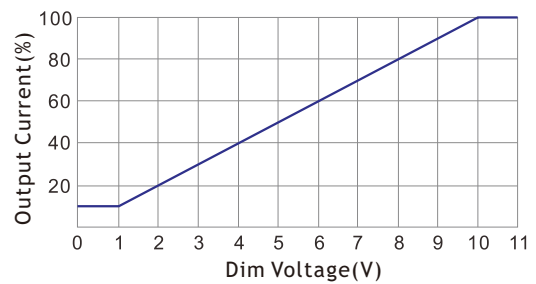
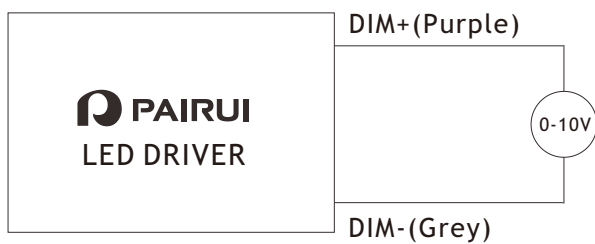


Electrical Curve



Dimming Function

0-10V Dimming



Update Record

Date	Version	Updated Content	Updated By	Approved By
2016/07/20	2016-V1.0-0720	File created		
2016/09/14	2016-V1.0-0914	Add LGSU100-C3150		
2018/12/27	2018-V1.0-1227	Remove label		
2019/03/13	2019-V1.0-0313	File updated		